

# VMware Horizon 8: Infrastructure Administration

Duration 2 Days

## COURSE DESCRIPTION

This two-day, hands-on course gives you the skills to install and configure a virtual desktop infrastructure platform. This course builds your skills in installing and configuring VMware Horizon® through a combination of lecture and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

## COURSE OBJECTIVES

By the end of the course, you should be able to meet the following objectives:

- Identify VMware Horizon Connection Server installation, architecture and requirements
- Describe the authentication and certificate options for a Horizon environment
- Recognize the integration process and benefits of Workspace ONE Access and Horizon 8
- Compare the remote display protocols that are available in VMware Horizon
- Describe the 3D rendering options available in Horizon 8
- Discuss scalability options available in Horizon 8
- Describe different security options for Horizon environment

## COURSE OUTLINE

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 Horizon Connection Server

- Recognize VMware Horizon reference architecture
- Identify the Horizon Connection Server supported features
- Identify the recommended system requirements for Horizon Connection Server
- Configure Horizon event database
- Outline the steps for the initial configuration of Horizon Connection Server
- Discuss the AD LDS database as a critical component of Horizon Connection Server installation

### 3 Authentication and Certificates

- Compare the authentication options that Horizon Connection Server supports
- Describe the Smartcard authentication options that Horizon Connection Server supports
- Outline the steps to create a Horizon administrator and custom roles
- Describe the roles available in a Horizon environment
- Explain the role that certificates play for Horizon Connection Server
- Install and configure certificates for Horizon Connection Server
- Install and configure True SSO in a Horizon environment

#### 4 Workspace ONE Access and Virtual Application Management

- Recognize the features and benefits of Workspace ONE Access
- Recognize the Workspace ONE Access console features
- Explain identity management in Workspace ONE Access
- Explain access management in Workspace ONE Access
- Describe the Workspace ONE Access directory integration
- Deploy virtual applications with Workspace services

#### 5 Horizon Protocols

- Compare the remote display protocols that are available in VMware Horizon
- Describe BLAST
- Describe the BLAST Display Protocol Codecs
- Summarize BLAST Codec options
- List ideal applications for each BLAST codec
- Describe BLAST and PCoIP ADMX GPO common configurations

#### 6 Graphics Cards

- Describe the 3D rendering options available in Horizon 8
- Compare vSGA and vDGA
- List the steps to configure graphics cards for use in a Horizon environment

#### 7 Horizon Scalability

- Describe the purpose of a replica connection server
- Explain how multiple Horizon Connection Server instances in a pod maintain synchronization
- List the steps to configure graphics cards for use in a Horizon environment
- Configure a load balancer for use in a Horizon environment
- Explain Horizon Cloud Pod Architecture LDAP replication and VIPA
- Explain Horizon Cloud Pod Architecture scalability options

#### 8 Horizon Security

- Explain concepts relevant to secure Horizon connections
- Describe how to restrict Horizon connections.
- Discuss the benefits of using Unified Access Gateway
- List the two-factor authentication options that are supported by Unified Access Gateway
- List Unified Access Gateway firewall rules
- Describe the situation in which you might deploy Unified Access Gateway instances with one, two, or three network interfaces

### WHO SHOULD ATTEND

Tier 1 Administrators and architects for VMware Horizon should enroll in this course. These individuals are responsible for the implementation, maintenance, and administration of an organization's end-user computing infrastructure.

## PREREQUISITES

Customers attending this course should have, at a minimum, the following VMware infrastructure skills:

- Use VMware vSphere® Web Client to view the state of virtual machines, datastores, and networks
- Open a virtual machine console on VMware vCenter Server® and access the guest operating system
- Create snapshots of virtual machines
- Configure guest customization specifications
- Modify virtual machine properties
- Convert a virtual machine into a template
- Deploy a virtual machine from a template

Attendees should also have the following Microsoft Windows system administration experience:

- Configure Active Directory services, including DNS, DHCP, and time synchronization
- Restrict user activities by implementing Group Policy objects
- Configure Windows systems to enable Remote Desktop Connections
- Build an ODBC connection to an SQL Server database